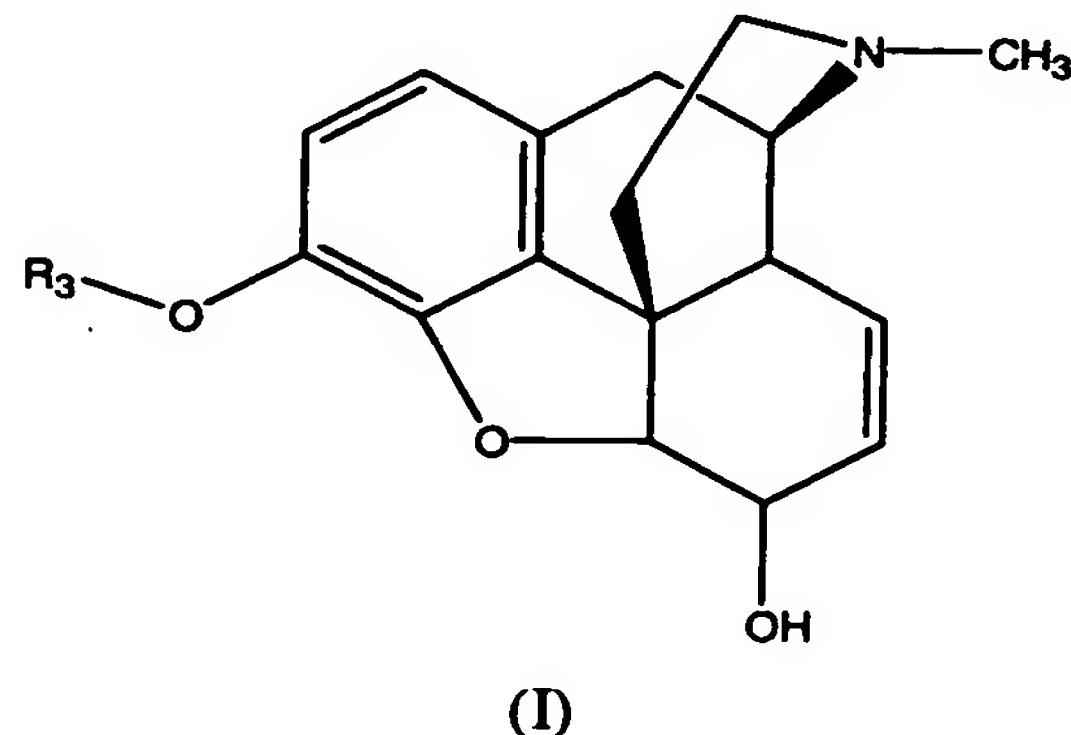


ABSTRACT

Disclosed are methods for making aldehydes and ketones comprising allowing the corresponding primary or secondary alcohol to react in the presence of 5 trichloroisocyanuric acid, a compound of formula R_1SR_2 and a base. In one embodiment, the alcohol is a compound of formula (I):



wherein R_3 is a protecting group.

10 Also disclosed are methods for making 3-O-protected morphine dienol carboxylates comprising allowing a compound of formula (I) to oxidize in the presence of a chlorine-containing compound and a compound of formula R_1SR_2 ; and allowing the product of the oxidation step to react with an acylating agent.